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COE 197S ME 8: Activity 5

SETTING UP THE SERVER

```
C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker run --rm -d --name apache -p 80:80 httpd:2.4
61695f8a7d8c61c7e110a0a057d3f2a3236e712cae4e9db7aa3ed253361e486c

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker ps -a
CONTAINER ID   IMAGE       COMMAND            CREATED         STATUS         PORTS                                     NAMES
61695f8a7d8c   httpd:2.4   "httpd-foreground"  26 seconds ago  Up 23 seconds  0.0.0.0:80->80/tcp, :::80->80/tcp   apache

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works!</h1></body></html>

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker cp index.html apache:/usr/local/apache2/htdocs/

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>
C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker stop apache
apache

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker run --rm -d --name apache -p 80:80 httpd:2.4
89a7492f6768b8b5d108d1896a2af331c1ba351fe510d9e932947057672cd947

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works!</h1></body></html>

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>
```

MANAGING VOLUMES

```
C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker volume ls
DRIVER     VOLUME NAME
local      14bc3a0ee946147e055acb5a92c9f2d9f56483bd793aeac06878960305683a5e

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker volume create myvolume
myvolume

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker volume ls
DRIVER     VOLUME NAME
local      14bc3a0ee946147e055acb5a92c9f2d9f56483bd793aeac06878960305683a5e
local      myvolume

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker volume rm myvolume
myvolume

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker volume ls
DRIVER     VOLUME NAME
local      14bc3a0ee946147e055acb5a92c9f2d9f56483bd793aeac06878960305683a5e

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>
```

MOUNTING VOLUMES ON CONTAINERS

```
C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker volume create httpd_htdocs
httpd_htdocs

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker run --rm -d --name apache -p 80:80 -v httpd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
docker: Error response from daemon: Conflict. The container name "/apache" is already in use by container "89a7492f6768b8b5d108d1896a2af331c1ba351fe510d9e932947057672cd947". You have to remo
ve (or rename) that container to be able to reuse that name.
See 'docker run --help'.

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker ps -a
CONTAINER ID   IMAGE      COMMAND             CREATED        STATUS        PORTS                                     NAMES
89a7492f6768   httpd:2.4  "httpd-foreground"  7 minutes ago  Up 7 minutes  0.0.0.0:80->80/tcp, :::80->80/tcp        apache

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker ps -a
CONTAINER ID   IMAGE     COMMAND    CREATED   STATUS    PORTS    NAMES

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker run --rm -d --name apache -p 80:80 -v httpd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
4519fc3fa956fbfc39b6d64d3b6103d7a1f2d6afa5064fa4eb3b9ae6acbd4bd9

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker cp index.html apache:/usr/local/apache2/htdocs/

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker stop apache
apache

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker run --rm -d --name apache -p 80:80 -v httpd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
b2355f3ea6f3ffdf0fe34b92a5f41ec453103bce96e0e16d2a6b1288603a3e36

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker stop apache
apache

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>docker volume rm httpd_htdocs
httpd_htdocs

C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>
```

MOUNTING HOST DIRECTORIES ON CONTAINER

```
PS C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes> docker run --rm -d --name apache -p 80:80 -v "$(pwd):/usr/local/apache2/htdocs/" httpd:2.4
d5f14cd8a1ea45d5984952cabed652605e36b75bd5823b0285735c132bfa9044
PS C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes> curl localhost


StatusCode        : 200
StatusDescription : OK
Content           : <html><body><h1>It works in Docker!</h1></body></html>

RawContent        : HTTP/1.1 200 OK
                    Keep-Alive: timeout=5, max=100
                    Connection: Keep-Alive
                    Accept-Ranges: bytes
                    Content-Length: 56
                    Content-Type: text/html
                    Date: Thu, 20 May 2021 15:38:03 GMT
                    ETag: "38-5c2b3f0591c32...
Forms             : {}
Headers           : {[Keep-Alive, timeout=5, max=100], [Connection, Keep-Alive], [Accept-Ranges, bytes],
                    [Content-Length, 56]...}
Images            : {}
InputFields       : {}
Links             : {}
ParsedHtml        : mshtml.HTMLDocumentClass
RawContentLength  : 56




PS C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes> curl localhost


StatusCode        : 200
StatusDescription : OK
Content           : <html><body><h1>It works in Docker! WAOW MUch DOGE</h1></body></html>

RawContent        : HTTP/1.1 200 OK
                    Accept-Ranges: bytes
                    Content-Length: 71
                    Content-Type: text/html
                    Date: Thu, 20 May 2021 15:39:20 GMT
                    ETag: "47-5c2c4be7d14ba"
                    Last-Modified: Thu, 20 May 2021 15:39:08 GMT
                    Server:...
Forms             : {}
Headers           : {[Accept-Ranges, bytes], [Content-Length, 71], [Content-Type, text/html], [Date, Thu, 20 May 2021
                    15:39:20 GMT]...}
Images            : {}
InputFields       : {}
Links             : {}
ParsedHtml        : mshtml.HTMLDocumentClass
RawContentLength  : 71




PS C:\Users\Enzo Alcantara\Documents\GitHub\ME8_Containerization_and_Docker\5-volumes>
```